

QSD 204

Quad Standard Decoder



QSD 204D

Quad Standard Decoder with SDI Input

UNIQUE FEATURES

- SDI input



SERIES FEATURES

- Input: NTSC 3.58, NTSC 4.43, SECAM, and PAL composite video, S-video, and component video on female BNCs; 4-pin mini DIN for S-video; RGBS and RGBcvS on a female 15-pin HD connector
- Output: Two RGB or component video outputs on BNC and 15-pin HD connectors
- Picture controls including color, tint, contrast, brightness, centering, and top and bottom blanking
- Memory settings for automatically recalling picture controls for each input
- RS-232 serial control, contact closure control, and optional IR remote control
- Rack-mountable 1U, half rack width metal enclosure

DESCRIPTION

The Extron **QSD 204** is a high quality Quad Standard Decoder with a four-line adaptive comb filter that virtually eliminates chroma noise and enables a projector or monitor to display a higher quality image than that of composite video or S-video. The QSD 204 accepts NTSC 3.58, NTSC 4.43, SECAM, and PAL composite video, S-video, or component video on three inputs and decodes the signals into component video, or RGsB, RGbS, or RGBHV for output. The fourth input accepts RGbS and RGbV from the SCART connector found on many European DVD players. The QSD 204D model features an SDI input.

Input, menu, and picture controls are selectable through the front panel or RS-232 commands. Input selection is also available through autoswitching or contact closure. Picture control settings are automatically saved for each of the four inputs including those for color, tint, contrast, brightness, centering, and top and bottom blanking. The QSD 204 is housed in a 1U, half rack width metal enclosure and is rack-mountable with an optional rack shelf.

MODEL	VERSION DESCRIPTION	PAGE	PART #
QSD 204	Standard Version		60-501-01
QSD 204D	With SDI Input		60-501-02
OPTIONAL ACCESSORIES	MODEL DESCRIPTION	PAGE	PART #
IR 901	Handheld IR Remote Control for the DVS 406, QSD 204, and IN1502.....	page 654	70-152-01

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QSD 204

SPECIFICATIONS

VIDEO INPUT

Number/signal type	1 RGBS, RGBcvs 1 component video (Y, R-Y, B-Y), S-video, composite video 1 SDI (optional) 1 S-video 1 composite video
Connectors	(1) 15-pin HD female (RGB) 3 BNC female (component video, S-video, composite video) 1 BNC female (optional SDI) (1) 4-pin mini-DIN female (S-video) 1 BNC female (composite video)
Nominal level	1 Vp-p for Y of component video and S-video, and for composite video 0.7 Vp-p for RGB, and for R-Y and B-Y of component video 0.3 Vp-p for C of S-video
Minimum/maximum levels	Analog: 0.0 V to 1.0 Vp-p with no offset
Impedance	75 ohms
Horizontal frequency	15.6 kHz to 17.75 kHz
Vertical frequency	50 Hz to 60 Hz

VIDEO PROCESSING

Decoder	9 bit digital
Digital sampling	24 bit, 8 bits per color; 13.5 MHz standard
Colors	16.78 million

VIDEO OUTPUT

Number/signal type	2 decoded RGBHV, RGBS, RGSB, or component video
Connectors	6 BNC female, (1) 15-pin HD female
Nominal level	1 Vp-p for Y of component video and S-video, and for composite video 0.7 Vp-p for RGB, and for R-Y and B-Y of component video 0.3 Vp-p for C of S-video
Minimum/maximum levels	0.0 V to 1.0 Vp-p
Impedance	75 ohms
Vertical frequency	50 Hz to 60 Hz

SYNC

Input type	RGBS, RGBcvs
Output type	RGBHV, RGBS, RGSB, component video
Standards	NTSC 3.58, NTSC 4.43, PAL, SECAM
Input level	RGBS: 0 V to 5.0 Vp-p RGBcvs: 0V to 1.0V Vp-p
Output level	TTL: 5.0 Vp-p, unterminated
Input impedance	75 ohms
Output impedance	75 ohms
Max. input voltage	5.0 Vp-p
Max. propagation delay	20 ns
Polarity	Positive or negative (switch-selectable)

CONTROL/REMOTE — DECODER

Serial control port	RS-232, 9-pin female D connector
Contact closure	9-pin female D connector (same as RS-232 connector)
IR controller module	IR 901

GENERAL

Power	100VAC to 240VAC, 50/60 Hz, 30 watts, internal, autoswitchable
Temperature/humidity	Storage -40° to +158°F (-40° to +70°C) / 10% to 90%, noncondensing Operating +32° to +122°F (0° to +50°C) / 10% to 90%, noncondensing
Rack mount	Yes, with optional 1U, 9.5" deep rack shelf, part #60-190-01 (RSU 129) or 60-604-01 (RSB 129)
Enclosure type	Metal
Enclosure dimensions	1.75" H x 8.75" W x 9.5" D (1U high, half rack width) (4.4 cm H x 22.2 cm W x 24.1 cm D) (Depth excludes connectors and knobs.)
Product weight	3.3 lbs (1.5 kg)
Shipping weight	6 lbs (2.7 kg)
Listings	UL, CUL

Note: For complete specifications, please go to www.extron.com

